WATER SUPPLY OUTLOOK

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Soil Conservation Service

Spokane, Washington



Water Supply Outlook for Washington

as of MAY 1, 1985



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: "Snow scene along trail to Mt. Hood test site snow course"

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

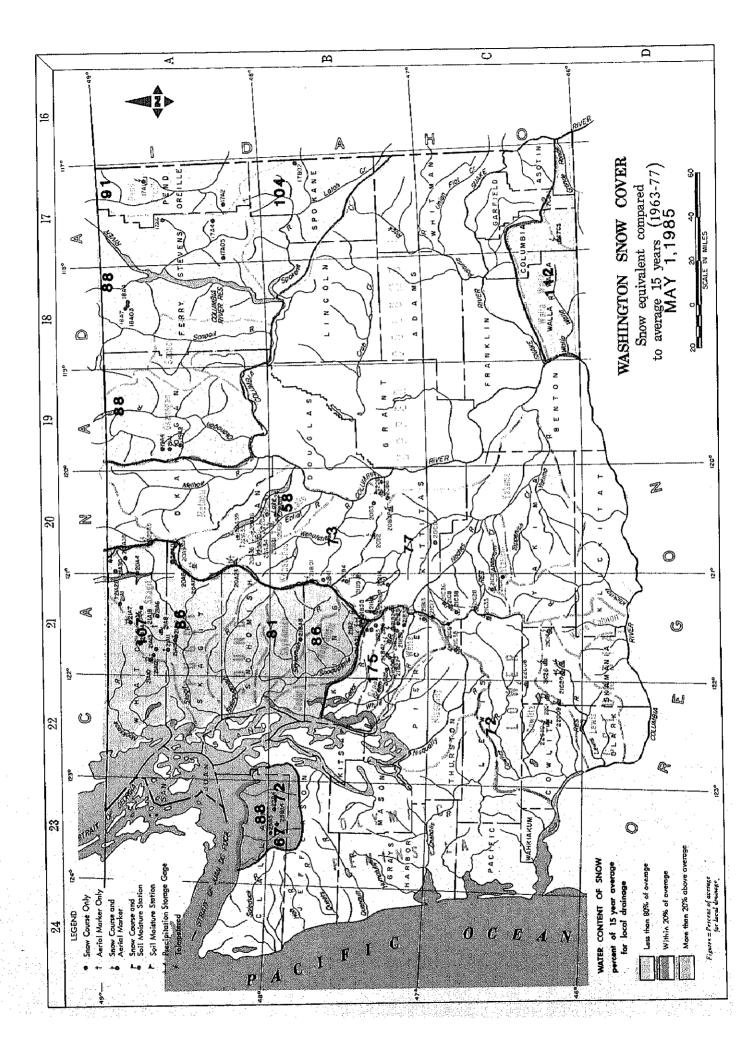
Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states;

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P.O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P.O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4402 Federal Bidg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P.O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

itlook reports prepared by other agencies include a report for California by iys Branch, California Department of Water Resources, P.O. Box 388, Ifornia 95802 — for British Columbia by the Ministry of the Environment, Ions Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 — iry by the Department of Indian and Northern Affairs, Northern Operations nge Road, Whitehorse, Yukon Territory Y1A 3V1 — and for Alberta, ind N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 gary, Alberta T3C 1A6.





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WATER SUPPLY OUTLOOK FOR WASHINGTON

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

ISSUED BY

PETER C. MYERS

Chief SOIL CONSERVATION SERVICE WASHINGTON, D.C.

RELEASED BY

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FORECASTS BY

SOIL CONSERVATION SERVICE WATER SUPPLY FORECASTING STAFF, WNTC PORTLAND, OREGON

and

NATIONAL WEATHER SERVICE

RIVER FORECAST CENTER PORTLAND, OREGON

REPORT PREPARED BY

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JOLA L. MICKELSEN, Secretary

SOIL CONSERVATION SERVICE 360 U.S. COURTHOUSE SPOKANE, WASHINGTON 99201



WATER SUPPLY OUTLOOK

State of Washington

MAY 1, 1985

The spring snowmelt is underway throughout the state. The cold, dry trend established in early January gave way to a warm, dry April over most of Washington. Water supply forecasts for May 1 include some downward forecasts for the Columbia River and its tributaries that drain the east slopes of the Cascade Mountain Range. Precipitation for April continued to be below average. Above average temperatures for April have increased streamflows to above normal. Reservoir storage has increased to near average for the May 1 report.

SNOW COVER

May 1 snow cover has been reduced slightly from that measured April 1st. Snow cover is still showing above average for the Spokane, Blue Mountains and the Green River Watersheds. The east slopes of the Cascades snow cover continued to decline to less than 80% of average. Ahtanun Creek and the Entiat River continue below average with snow cover of 50% and 58%.

PRECIPITATION

Precipitation was below average over most of the state, with the exception of the Yakima River at 111% of normal and the northwest slopes of the Cascades at 118% of average. Northeastern Washington had 58% of average, while the North Central area had 33%. The lowest amount of precipitation fell in the North Central area with .29 inches during April. The southwest side of the Cascades was also below average with the south at 80%.

RESERVOIR STORAGE

Washington's stored water supplies are good within the irrigated sections of the state. Above normal temperatures have increased area streamflows. Irrigation reservoirs are storing 718,600 acre feet of water in the Vakima. 95% of normal. The reservoirs in the Okanog capacity. Lake Chelan at 202.800 acre feet, reservoirs in the Skagit area are at 66% of

STREAMFLOW

Warm temperature during April started the spring runoff. Streams in the state had the following average flows for April; the Pend Oreille River at 103%, Spokane River at 128%, Yakima River at 130%, the Wenatchee River at 124%, the Walla Walla River had 134%, the cowlitz River had 143%. Temperatures have been near or above average. The following stations reported below average for April, Spokane +2, Astoria +1, and Seattle -2. The Okanogan area was 5 degrees above average.

Forecasted streamflows for streams in the Columbia River have been reduced for all areas except the Yakima River and its tributaries. Some of the streams having reduced forecasted flows include the Colville from 84% to 80%; Pend Oreille from 93% to 89%; Okanogan from 97% to 82%; the Cowlitz from 90% to 85%; the Wenatchee from 96% to 88%; and the Spokane from 111% to 105%...

STREAMFLOW FORECASTS - MAY 1985

THE FOLLOWING SUMMARIZED RUNOFF FORECASTS ARE BASED PRINCIPALLY ON MOUNTAIN SNOW COVER AND ON THE ASSUMPTION THAT PRECIPITATION AND TEMPERATURE WILL BE NEAR AVERAGE FROM THE PRESENT TIME TO THE END OF THE FORECAST PERIOD. APPRECIABLE DEVIATIONS FROM NORMAL TEMPERATURE AND/OR PRECIPITATION WILL CORRESPONDINGLY MODIFY THESE FORECASTS. THESE FORECASTS ARE MADE AS A PRODUCT OF THE COOPERATIVE EFFORTS OF THE SOIL CONSERVATION SERVICE AND THE NATIONAL WEATHER SERVICE. STREAMFLOW FIGURES FOR 1982-1984 ARE PRELIMINARY AND SUBJECT TO REVISION.

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COLUMBIA RIVER	37800	91	MAY-SEPT	36730	39759	46400	41733
AT BIRCHBANK	29700	90	YAUL-YAM	27900	31103	36040	32833
, , , , , , , , , , , , , , , , , , , ,	20800	90	MAY-JUNE	18200	20815	25280	23155
COLUMBIA RIVER	54300	90	MAY-SEPT	55800	58780	48085	60100
AT GRAND COULE		91	MAY-JULY	45250	39475	35480	49400
	33900	91	MAY-JUNE	32750	27745	24270	37300
COLUMBIA RIVER	59300	90	MAY-SEFT	59450	61910	73340	45550
BL ROCK ISLAND	49400	91	MAY-JULY	48750	50740	60580	54375
	37500	91	MAY-JUNE	35350	36625	43300	41160
COLUMBIA RIVER	81800	93	MAY-SEPT	92100	89225	105105	88290
AT THE DALLES	68400	93	MAY-JULY	77066	73820	88233	73760
	53300	93	AVUC-YAM	59000	55580	66725	57360
PEND OREILLE RIV	JER SYSTE	M					
PEND OREILLE	14000	91	APR-SEPT	12980	12841	17721	15425
BL. BOX CANYON	12800	90	APR-JULY	11780	11482	16324	14156
	11000	90	APR-JUNE	9895	9226	13306	12227
KETTLE RIVER SYS	STEM		•				
KETTLE RIVER	1.300	82	MAY-SEFT	2027	2194	2131	1581
NR LAURIER	1220	82	YJUL-YAM	1915	2019	1975	1491
	1090	82	MAY-JUNE	1592	1736	1548	1334
COLVILLE RIVER		80	APR-SEPT	243	182	160	134
AT KETTLE FALLS		80	AFR-JULY	221	161	161	123
•	91	80	APR-JUNE	197	144	132	114
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^{/1/} OBSERVER FLOW CORRECTED FOR STORAGE IN ANY OF T RESERVOIRS WHICH ARE ABOVE THE STATTON: MODIFIED FLATHEAD LAKE, PEND OREILLE LAKE, COEUR D'ALENE LAKE, BROWNLEE, NO ROOSEVELT LAKE.

SEAS BASIN, STREAM AND STATION	ONAL STRE FORECAST RUNOFF 1985	EAMFLOW % 20-YR AVG.	IN THOUSA FORE- CAST PERIOD	NDS OF	ACRE-FE!		20-YR AVERAGE
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SPOKANE RIVER S	YSTEM						
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OKANOGAN RIVER			-,	1020	THAD	1007	1004
SIMILKAMEEN R.	1220	86	MAY-SEPT	1131	1366	1592	1376
NR NIGHTHAUK	1138	86	YAUL-YAM	1033	1232	1445	1279
	955	86	MAY-JUNE	811	1031	1120	1075
OKANOGAN RIVER	1244	82	MAY-SEPT	1531	1903	1921	1517
NR TONASKET	11.50	82	MAY-JULY	1335	1624	1587	1370
	95 0	82	MAY-JUNE	1022	1302	1181	1135
METHOW RIVER SYS	STEM				0 0 1	1 . W .	1133
METHOW RIVER	755	84	MAY-SEPT	891	1187	1133	900
NR PATEROS	695	84	Y_UUL-YAM	801	1076	1050	928
	580	84	MAY-JUNE	637	927	848	693
CHELAN RIVER SYS	STEM				,,	W1 W	070
CHELAN RIVER	900	82	MAY-SEPT	994	1120	1301	1094
AT CHELAN /3/	776	82	MAY-JULY	861	963	1148	946
	588	82	MAY-JUNE	603	760	883	717
STEHEKIN RIVER	690	80	APR-SEPT	736	, 00	938	860
AT STEHEKIN	580	80	APR-JULY	808	727	800	727
	440	80	APR-JUNE	411	572	603	747 553
ENTIAT RIVER	190	81	APR-SEPT	231	292	282	235
NR ARDENVOIR	170	80	APR-JULY	207	263	258	233 213
	138	80	APR-JUN	152	221	206	172
MENATCHEE RIVER	SYSTEM			30 Tal 44	óm du "h	T. V O	1.7 2.
WENATCHEE RIVER	₹ 1000	88	APR-SEPT	c	AGE ABAN	nnaign	1136
NR PLAIN	880	88	APR-JULY	_	tion Heli	COUNCD	1001
	673	88	APR-JUNE				899
WENATCHEE RIVER	1370	90	MAY-SEPT	1107	1375	1860	
AT PESHASTIN	1220	90	Y_UL-YAM	951	1217	1638	1523
	943	90	MAY-JUNE	588	976	1276	1356
STEMILT BASIN	×1.21	88	MAY-SEPT		AGE ABAN		1048
NR WENATCHEE				C	HUE HEHR	DOMED	**138
ICICLE CREEK	322	87	APR-SEPT	rs	AGE ABAN	<u>የ</u> አጠኔ፤ ም የኣ	www.cs
NR LEAVENHORTH	296		APR-JULY	G	nut MCHN	DOMED	**370
	235	87	APR-JUNE		٠		жж340
			TO TE WUITE				**270

^{*} THOUSANDS OF MINERS' INCHES.

** AVERAGE COMPUTED FOR 1963-1977.

/2/ FORECASTS MADE BY JERRY BEARD, SOIL CONSERVATION SERVICE, BOISE,

IDAHO, OBSERVED FLOW CORRECTED FOR STORAGE IN COEUR D'ALENE LAKE. OBSERVED FLOW CORRECTED FOR STORAGE IN LAKE CHELAN. /3/

	ONAL STRE FORECAST RUNOFF 1985	EAMFLOW % 20-YR. AVG.	IN THOUSAN FORE- CAST PERIOD			1982	20-YR AVERAGE 61-80
YAKIMA RIVER SYS	STEM						
YAKIMA RIVER	108	95	MAY-SEPT	113	89	135	114
NR MARTIN /4/	78	95	MAY-JULY	104	76	120	103
	82	95	MAY-JUNE	87	61	104	86
YAKIMA RIVER	733	94	MAY-SEPT	798	752	985	780
AT CLE ELUM /5	/ 651	94	Y.JUL-YAM	707	596	875	693
	540	94	BAUL-YAM	560	488	768	574
YAKIMA RIVER	1625	95	MAY-SEPT	1652	1737	2070	
NR PARKER /6/	1435	95	YJUL-YAK	1432	1489	1846	
	1210	95	ANUL-YAM	1152	1249	1569	1274
KACHESS RIVER	93	95	MAY-SEPT	102	81	116	98
NR EASTON /7/	87	95	YJUL-YAM	91	71	108	92
	74	95	JAUL-YAM	74	60	92	78
CLE ELUM RIVER		95	MAY-SEPT	395	372	470	400
NR ROSLYN /8/	342	95	YJUL-YAM	350	324	422	360
	276	95	AAY-JUNE	263	263	346	291
BUMPING RIVER	126	100	MAY-SEPT	122	126	147	
NR NILE /9/	1.14	100	MAY-JULY	112	115	134	114
	91	100	MAY-JUNE	87	94	109	91
AMERICAN RIVER		101	APR-SEPT	114	157	140	124
NR NILE	114	101	APR-JULY	104	144	130	113
	95	101	AFR-JUNE	81	120	109	
TIETON RIVER/1		103	MAY-SEPT		250	250	
AT TIETON DAM	1.80	103	MAY-JULY	172	203	211	175
	137	103	,,,,,	124		164	· · · · · · · · · · · · · · · · · · ·
NACHES RIVER	750	103	MAY-SEPT			982	
NR NACHES /11/		103	MAY-JULY		,	902	
	546		MAY-JUNE	470	i i	717 62	
AHTANUH CREEK		96	APR-SEPT	34	67	04	39
NR TAMPICO /12			MAY-SEFT			58	
		95	APR-JULY	29		51	
	36	97	AFR-JUNE	24	54	. 4	٠,٠

^{/4/} OBSERVED FLOW CORRETED FOR STORAGE IN LAKE KEECHELUS.

^{75/} OBSERVED FLOW CORRECTED FOR STORAGE IN KEECHELUS, KACHESS, AND CLE ELUM LAKES AND DIVERSION BY KITTITAS CANAL,

^{76/} OBSERVED FLOW CORRECTED FOR STORAGE IN KEECHELUS, KACHESS, CLE ELUM, BUMPING, AND RIMROCK LAKES AND DIVERSIONS BY ROSA, UNION GAP, NEW RESERVATION, OLD RESERVATION AND SUNNYSIDE CANALS.

^{///} OBSERVED FLOW CORECTED FOR STORAGE IN LAKE KACHESS.

⁷⁸⁷ OBSERVED FLOW CORRECTED FOR STORAGE IN LAKE CLE ELUM.

^{79/} OBSERVED FLOW CORRECTED FOR STORAGE IN BUMPING LAKE.

YLO/ OBSERVED FLOW CORRECTED FOR STORAGE IN RIMROCK LAKE.

^{/11/} OBSERVED FLOW CORRECTED FOR STORAGE IN BUMPING AND RIMROCK LAKES AND DIVERSIONS BY TIETON, SELAH VALLEY, WAPATOX CANALS AND CITY OF YAKIMA.

V12/ OBSERVED FLOW OF NORTH AND SOUTH FORKS (COMBINED).

SEAS BASIN, STREAM AND STATION	PT 15 F1 191 35 1 45 194		IN THOUSA FORE- • CAST FERIOD				20-YR AVERAGE 61-80
LOWER COLUMBIA	CTUED OVO						
MILL CREEK			APR-SEPT	ማማ ላፈ	10 00	<i></i>	
AT WALLA WALLA	14.5	7 G	APR-JULY	23.46	13,48 13,39		xx17.50
3 1 23 3 km for 23 3 for low 7	16.3		APR-JUNE	22.24			**17.33
LEWIS RIVER		80	MAY-SEPT	959	13.36 928		**17.15
AT ARIEL /13/	ማ ማ	87	MAY-JULY				900
111 1111222 7 2 27	490	90	MAY-JUNE				737
COMLITZ RIVER	1375	80 85 85	MAY-SEPT				612
BL MAYFIELD DAM	1150	QE	MAY-JULY	1479	1559		1617
/14/	720	OE OE	MAY-JUNE	1189	1378	1572	1357
COMLITZ RIVER	1750	85	MAY-SEPT	3117	1048	1331	1081
AT CASTLE ROCK	1050	Q E	MAY-JULY	2714	1998	1918	2058
/14/	1160	85	MAY-JUNE	2204	1575	1626	1708
	C PENINSUI		MAL OOME	2204	1119	1343	1365
DUNGENESS RIVER		las PT					
DUNGENESS RIVER		91	APR-SEPT		197	4 25 1	
	118		APR-JULY				1.60
1514 G La G G 3.11		91	APR-JUNE		158		130
ELWHA RIVER SYST		7 1	HEK-JOKE		117	117	97
ELNHA RIVER		90	APR-SEPT	4.45	100 to 100		
NR PORT ANGELES	300 410	7 V					
	PUGET SOU		APR-JULY	383	448	512	x x 454
SKAGIT RIVER SYS		N.D.					
AT MEMBALEM 715	1611 7 2000	me	A Phillip on the many	4 314 000 314			
AT NEWHALEM /15	/ 2.000 1 / 7 E	ದರ ೧೯	APR-SEPT		1531		**2356
	10/0	ರಾಜ	APR-JULY		1061	1439	x x 1972
CREEN RIVER SYST	1.4.0V	83	AFR-JUNE	621	698	1004	xx1485
OREEN RIVER BL	高門 	85	A 17, 17, 19, 199, 199 pp. 1991				
HOWARD HANSEN D	27V	85	AFR-SEFT	275	1,90		**316
	3M 290	85	APR-SEPT APR-JULY APR-JUNE	243	145	195	* * 284
/16/ CEDAR RIVER SYST	215	84	APR-JUNE	217	107	174	**256
	# 17	49. PM					
OR CEDAR FALLS	79	85	APR-SEPT	86	66	80	**93
THE PERSON FOLLOWING							

⁷¹³⁷ OBSERVED FLOW CORRECTED FOR STORAGE IN LAKE MERWIN, YALE AND SWIFT RESERVOIRS.

⁷¹⁴⁷ DBSERVED FLOW CORRECTED FOR STORAGE IN RIFFE LAKE AND MAYFIELD RESERVOIR.

^{/15/} OBSERVED FLOW CORRECTED FOR STORAGE IN DIABLO, ROSS AND GORGE RESERVOIRS.

^{/16/} OBSERVED FLOW CORRECTED FOR STORAGE IN HOWARD HANSON DAM.

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of washington stream basins presents the water content of the snow about MAY 1, 1985, as percent of the same date in 1984 and average of record.

	No. of		vater Expressed
Tributary Basin	No. oi Courses	as 1984	percent of Average 1961-80
			11701080 1701 00
		UPPER COLUMBIA BASIN	
Pend Oreille	9	108	91
Kettle	2	89	88
Colville	0		
Spokane	4	1.52	104
kanogan	20	99	88
Methow Chelan	1		
Entiat	3	91	58
Venatchee	7	123	73
lakima	9	118	77
Ahtanum	1		
		LOWER COLUMBIA BASIN	
4111 Creek	1		112
Cowlitz	1	81	72
		PUGET SOUND	
∛h ite	0		
Green	8	157	175
noqualmie	1	144	86
Skykomish	2	112	81
Skagit	11	147	86
aker	9	138	107
·		OLYMPIC PENNINSULA	
iorse	1	107	88
Elwha	1	104	67
ungeness	ī	136	72

RESERVOIR STORAGE - 1000 Acre Feet

BASIN OR		USABLE 1/		Measured	(MAY 1)	
STREAM	RESERVOIR	CAPACITY	1985	1984	1983	Normal*
		COLUMBIA				
Spokane	Coeur d'Alene Lake	225.1	214.6	230.8	182.3	238.4
Columbia	Franklin D. Roosevelt Lake	5232 . 0	947.3	2222.3	523.4	867.8
Columbia	Banks Lake	714.9	645.4	405.6	650.7	442.8
Okanogan	Conconully Reservoir	13.0	13.0	13.0	13.0	7.7
Okanogan	Conconully Lake	10.5	9.8	10.4	10.4	8.0
Chelan	Lake Chelan	676.1	202.8	261.7	281.0	219.0
		<u>YAKIMA</u>				
Yakima	Keechelus Lake	157.8	126.9	147.0	139.6	113.8
Kachess	Kachess Lake	239.0	200.7	230.0	227.0	194.2
Cle Elum	Lake Cle Elum	436.9	258.5	403.0	393.2	295.9
Bumping	Bumping Lake	33.7	17.2	21.2	8.8	11.6
Tieton	Rimrock Lake	198.0	115.3	184.8	148.3	136.6
		PUGET SOUNI	<u>0</u>			
Skagit	Ross Reservoir	1404.1	468.2	887.3	712.9	754.4
Skagit	Diablo Reservoir	90.6	84.6	83.8	88.0	85.7
Skagit	Gorge Reservoir	9.8	8.0	7.5	8.4	8.0
	on Active Storage Average 1963-1977					

 $\underline{\text{PRECIPITATION}} \ \underline{\textbf{1}}/$ Division Average Observations and Departures

	Fa1	1	1	Winter	S	pring				
	Sept-Oct	1984 <u>2</u> /	Nov. 198	4 - Mar. 198						
Divisions	Observed	Departure	Observed	Departure	Observed	Departure				
Northeastern Wash	1.83	-0.65	9.02	-0.23	0.47	-0.77				
Southeastern Wash	2.22	-0.29	10.00	-0.20	0.82	-0.64				
East Slope Cascade	s 3.24	-1.51	20.04	-7.31	2.05	+0.20				
North Central Wash	1.54	-0.05	4.78	-1.58	0.29	-0.57				
Northwest Cascades	11.98	-1.23	40.18	-15.1	6.89	+1.07				
Southwest Cascades	8.89	-4.59	28.96	-11.51	3.29	-0.82				
Northeastern Washi	ngton		pokane, Col ettle Drain	lville, Sand	poil, and					
Southeastern Washi	ngton	- Touchet, Tucannon, and Palouse Drainages								
East Slope Cascade	8	- Yakima, Wenatachee, and Chelan Drainages								
North Central Wash	ington	- Methow and Okanogan Drainages								
Northwest Slope Ca	scades	- Puget S	ound Draina	iges						
Southwest Slope Ca	scades	- Lower Columbia Drainages								

 ^{1/ -} Preliminary analysis by National Weather Service from data furnished by Meteorlogical Services of Canada and the National Weather Service.
 2/ - Departure from 15-year (1958-1972) drainage division average.

5	WONS		THIS YEAR		PAST R	ECORD	ነ		
Γ	ORAINAGE BASIN and/o	Date	Snow Depth	Water Content	Water Contr	nt (inchesi			
ľ	NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average A	

UPPER COLUMBIA DRAINAGE

	<u></u>		JUSTIN DICE.	T111101			
PEND OREILLE RIVER							
Benton Meadow	16A02	2344	5/01	0	0.0	0.0	4.9
Benton Spring	16A03	4900	5/01	30	13.9	12.8	15.6
Boyer Mtn	17A02	5250	4/29	54	23.0	26.5	24.9
Bunchgrass Meadow	17A01	5000	4/30	53	25.4	28.2	29.0
Chewelah	17A04	4925	NO REPORT				
Hoodoo Basin	15C10	6000	4/29	112	52.9	42 -8	54.5
Hoodoo Creek	15C01	5900	4/29	99	44.4	39.4	50.7
Lookout	15B02	5250	4/30	68	34.6	23.8	33.7
Nelson	2D04CA	3050	NO REPORT			2.2	7.0
Schweitzer Bowl	16A06	4500	4/29	46	22.3	20.3	23.7
Schweitzer Ridge	16A05	6100	4/29	89	41.4	43.6	47.8
KETTLE RIVER							
Barnes Creek	2B06CA	5300	4/29	46	18.5	20.9	20.7
Big White Mtu.	2E03CA	5500	NO REPORT			21.8	21.1
Butte Creek	18A03	4070	†† B}				
Carmi	2EO2CA	4100					2.0
Farron #1	2B02CA	4000	••				9.4
Farron #2	2B02ACA		11				9.2
Goat Creek	18A04	3595	••				0.0
Monashee Pass	2E01CA	4500	4/29	32	11.1	12.5	12.8
Summit G.S.	18A05	2150	NO REPORT				5.8
Trapping Creek Lower	2E05CA	3050	41			0.0	0.0
Trapping Creek Upper	2E04CA	4450	**			4.3	6.0
COLVILLE RIVER							
Baird	17A06	3215	NO REPORT				
Chewelah	17A04	4925	87			*	
Togo	18A10	3370	11 1			*	
OMAK LAKE, TWIN LAKES							
	70.41						
Mission	19A11	1150	NO REPORT			en e	1.00
Mount Tolman	18A12	2000					
Twin Lake	18A11	2700	••			*	

Average based on 1961-1980 averages sp SNOTEL data

SNOW			THIS YEAR P				PAST RECORD		
DRAINAGE BASIN and/or SN	OW COURSE		Date	Snow Depth	Water Content	Water Conte			
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 🤾		
SPOKANE RIVER									
Above Burke	1.5B08	4100	4/30	40	18.2	9.8	19.9		
4th of July Summit	16B03	3100	NO REPORT	7 •	0.0	0.0	0.0		
Lookout	15B02	5250	4/30	68	34.6	23.8	33.7		
Lost lake	15B14A	6000	4/29	128	61.4	46.2	59.1		
Mosquito Ridge	16A04	5110	NO REPORT	ľ					
Sherwin	16C01	3200	4/29		9.1E	1.4	5.5		
Sunset	15B09A	5600	5/01		33.7SP				
NEWMAN LAKE									
Ragged Ridge	17B02	3333	4/15	0	0.0	0	New		
OKANOGAN RIVER									
Aberdeen Lake	1F01CA	4300	NO REPORT	r		0.3	1.7		
Blackwall Peak	2G03CA	6250	4/29	76	31.0	25.0	37.8		
Brenda Mine	2F18CA	4800	4/29	33	11.5	•	9.9		
Brookmere	1C01CA	3200	NO REPOR	T		0.0	5.6		
Enderby	1F04CA	6250	4/30	96	39.4	45.7	42.3		
Esperon Creek Lower	2F15CA	4400	NO REPOR	${f T}$			9.3		
Esperon Creek Middle	2F15CA	4700	11				12.3		
Esperon Creek Upper	2F13CA	5400	*1				18.1		
Grayback Reservoir	2F08CA	5225	4/30	21	6.4	9.8	8.0		
Hamilton Hill	2G06CA	4900	4/29	29	11.0	6.3	13.2		
Harts Pass	20A05A	6500	4/29	88	35.7	37.0	48.9		
Isintok Lake	2F11CA	6300	4/28	13	4.3	5.1	7.1		
Lost Horse Mountain	2G04CA	7000	NO REPOR	T			10.5		
McCulloch	2F03CA	4200	4/29	0	0.0	-4	2.7		
Missezula Mtn.	2G05CA	5100	4/28	22	8.3	4.3	6.0		
Mission Creek	2F05CA	6000	NO REPOR				21.7		
Monashee Pass	2E01CA	4500	4/29	32	11.1	12.5	12.8		
Mount Kobau	2F12CA	5960	4/27	37	12.9	16.9	12.8		
		-				•			

[#] Average based on 1961-1980 averages s SNOTEL data

SNOW				THIS YEAR		PAST R	ECORD
DRAMAGE BASIN and/or SNO	OW COURSE		Date	Snow Depth	Water Content	Water Conti	ent (inchesi
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 🔻
OKANOGAN RIVER (CONT.)							
Mutton Creek No. 1	19A01	5700	4/30	0	0.0		11.8
Mutton Creek No.2 SP	19A11	6000	NO REPORT	•			New
Nickel Plate	2G02CAN		##			8.0	8.1
Oyama Lake	2F19CAN		4/28	9	2.9	3.1	3.1
Postill Lake	2F07CAN		4/30	15	4.7	6.8	6.6
Rusty Creek	19A03	4000	4/30	0	0.0	0.0	0.7
Salmon Meadows	19A02	4500	4/30	0	0.0		5.0
Silver Star Mountain	2F10CAN		4/28	67	28.1	30.7	28.3
Summerland Reservoir	2F02CAN		4/28	17	5.5	5.9	5.8
Sunday Summit	2G01CAN		4/30	0	0.0	•0	1.1
Trout Creek	2F01CAN		4/28	14	4.3	1.6	5.2
Vaseux Creek	2F20CAN		4/29	7	2.4	6.4	2.5
White Rocks Mountain	2F09CAN	6000	4/29	51	20.8	23.4	248
METHOW RIVER					•		
Harts Pass	20A05A	6500	4/29	88	35.7	37.0	48.9
Mutton Creek No. 1	19A01	5700	4/30	0	0.0		10.1
Mutton Creek No. 2 SP	19A11	6000	Not Measu	red			12.4
Rusty Creek	19A03	4000	4/30	0	0.0	0.0	•7
Salmon Meadows	19A02	4500	4/30	0	0.0		5.0
CHELAN LAKE BASIN							
Cloudy Pass +	20A22	6500	NO REPORT	i			35.2
Little Meadows +	20A24a	5275	t#				37.6
Lyman Lake	20A23	5900	5/01		51.9SP	4	82.0
Mirror Lake	30A39	5600	5/01		25.9SP		
Park Creek Ridge	20A12	4600	5/01		33.3SP		31.7
Rainy Pass	20A09	4780	4/30	76	32.4	33.0	43.1

[#] Average based on 1961-1980 averages

⁺ Aerial stadia observation

sp SNOTEL data

SNOW	•		THIS YEAR			PAST RECORD		
DRAINAGE BASIN and/or Si	YOW COURSE		Date	Snaw Depth	Water Content	Water Cont	ent (inches)	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average X	
ENTIAT RIVER								
Brief	20B19	1600	4/29	0	0	0	.0	
Entiat Meadows +	20A33	4540	NO REPORT	=	•	27.1	35.7	
Entiat River Trail +	20A34	3325	11			5.0	9.1	
Fox Camp +	20A36	6510	11			60 -7	62.9	
Pope Ridge	20B20	3450	4/29	11	4.6		9.4	
Pugh Ridge +	20A32	6725	NO REPORT		,	30.8	37.9	
Shady Pass	20A37	6200	4/29	40	18.7	25.6	30.3	
Snow Brushy +	20A35	3910	NO REPORT			27.7	28.0	
lommy Creek +	20B21	4900	u			14.5	20.2	
WENATCHEE RIVER								
Berne Mill Creek	21B23	3170	4/29	51	21.8	7.0	21.8	
Berne Mill Creek SP	21B41	3240	4/29	27	11.8	7.0	17.7	
Blewett Pass No. 2	20B02	4270	5/01	0	00	7.3	9.6	
Chiwaukum G. S.	20B16	1810	4/29	0	0.0	0	1.5	
Lake Wenatchee	20B05	1970	Watershed	Logged	Discont	inued		
Lyman Lake	20A23	5900	5/01		51.9SP		82.0	
Merritt	20B18	2140	4/29	0	0.0	0.0	5.5	
Stevens Pass	21B01	4070	4/29	98	45.8	41.5	54.3	
Stevens Pass Sand Shed	21B45	3700	4/29	57	26.5	22.7	34.5	
COLOCKUM CREEK								
Trough #2(SP)	20B25	5310	5/01		0.0sp	2.3	6.9	

⁺ Aerial stadia observation

[#] Average based on 1961-1980 averages

sp SNOTEL data

WONS				THIS YEAR	Y	PASTR	ECORD
ORAINAGE BASIN and/or S	NOW COURSE		Date	Snow Depth	Water Content	Water Conte	
NAME	Number	Elevation	of Survey	(Inches)	(inches)	Last Year	Average A
SQUILCHUCK CREEK							
Beehive Springs Scout-a-Vista	20B03 20B04	4400 3400	NO REPOR	T		0.0	1.8
STEMILT CREEK							
Stimelt Slide Upper Wheeler	20B06 20B07	5000 4400	NO REPOR	T		2.7 8.4	6.8 1.0
YAKIMA RIVER							
Ahtanum R.S.	21C11	3100	4/25	0	0.0	0.0	0.0
Big Boulder Creek	21B09	3200 4270	4/30 5/01	16 0	7.5 0.0	8.5 6.3	9.1 9.6
Blewet Pass No. 2	20B02 21C08	3450	4/26	20	7.6	3.2	9.0
Bumping Lake Old	21C36	3400	4/26	31	12.0	8.4	13.6
Bumping Lake New	21C06	5300	NO REPOR			83.0	90.6
Cayuse Pass Colockum Pass	20B09	5370	11				14.2
Corral Pass	21B13	6000	11				37.7
Fish Lake	21B04	3371	4/30	41	19.0	19.8	26.4
Green Lake	21C10	6000	NO REPOR	T			
Grouse Camp	20B11	5385	88				17.1
Lake Cle Elum	21B14	2200	0				
Morse Lake	21C17	5400				00.0	60.9
Olallie Meadows	21B02	3625	4/30	90	43.5	30.2	50.1
Stampede Pass	21B10	3860	NO REPOR		1 / 0	48.0 3.7	41.2 15.4
Tunnel Avenue	21B08	2450	4/29	31	14.0 19.0	23.4	26.1
White Pass E. Side	21C28	4500	4/25	57	TA.0	2J•4	40. L

[#] Average based on 1961-1980 averages sp SNOTEL Reading

WONS				THIS YEAR		PAST RECORD		
DRAINAGE BASIN and/or St	OW COURSE		Date	Snow Death	Water Content	Water Cont	ent (inches)	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average A	
AHTANUM CREEK								
Ahtanum R. S. Green Lake	21C11 21C10	3100 6000	4/25 5/01	0	0.0 12.3sp	3 . 2 34 . 8	5.8	
	L	OWER CO	OLUMBIA DRA	AINAGE	•			
MILL CREEK								
High Ridge SP Touchet # 2 SP	18D19 17C55	4890 5530	4/30 4/26	38 76	19.5 33.0	0.0		
COWLITZ RIVER								
Cayuse Pass White Pass E. Side	21C06 21C28	5300 4500	NO REPORT 4/25	57	19.0	83.0 23.4	90.6 26.1	
		PUGET	SOUND DRAI	NAGE	ř		,	
WHITE RIVER								
Cayuse Pass Corral Pass Morse Lake	21C06 21B13 21C17	5300 6000 5400	NO REPORT			83.0	90.6 37.7 60.9	
GREEN RIVER	,							
Airstrip Charley Creek Cougar Mountain Grass Mtn. No. 2 Grass Mtn. No. 3 Lester Creek Lynn Lake Sawmill Ridge Stampede Pass Twin Camp	21B24 21B25 21B42 21B27 21B28 21B29 21B50 21B31 21B10 21C30	1800 1200 3200 2900 2100 3100 4000 4700 3860 4100	5/02 5/02 5/01 5/02 5/02 5/02 5/02 5/02 5/01 5/02	0 0 24 0 62 58 82	0.0 0.0 20.4sp 9.4 0 27.3 29.9 36.3 50.0sp 24.7	0.0 1.1 0.0 14.0 29.2	0.0 16.4 2.1 0.0 14.5 3.2 39.5 41.2	

[#] Average based on 1961-1980 averages sp SNOTEL Reading

WSFB-X4-L

WORZ				THIS YEAR	Y	PAST R	ECORD
DRAINAGE BASIN and/or SNO	W COURSE		Date	Snow Depth	Water Content	water Conte	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 🐴
SNOQUALMIE RIVER							
Olallie Meadows	21802	3960	4/30	90	43.5	30.2	50.1
SKYKOMISH RIVER							
Stevens Pass	21B01	4070	4/29	98	45.8	41.5	54.3
Stevens Pass Sand Shed	21B45	3700	4/29	57	26.5	22.7	34.5
SKAGIT RIVER							
Beaver Creek Trail	21A04	2200	4/30	5	2.5	0.0	5.5
Beaver Pass	21A01	3680	4/29	63	24.0	13.0	31.3
Brown Top Ridge	21A28	6000	4/29	126	53.8	53.2	67.5
Devils Park	20A04	5900	4/29	92	39.2	29.6	48.2
Freezeout Creek Trail	20A01	3500	4/29	22	7 .0	1.1	8.4
Freezeout Meadow	20A38	5040	4/29	60	25.0	19.4	35.8
Granite Creek	21A29	3500	4/30	30	11.4	5.4	18.2 48.9
Harts Pass	20A05A	6500	4/29	88	35.7	37.0	7.2
Klesilkwa	3D03ACA		4/29	17	7.0 9.8	0.0 5.9	11.5
Lightning Lake	3D02CAN		4/29	29	9.0	J.9	82.0
Lyman Lake	20A23	5900	NO REPORS	0	0.0	0.0	1.5
Meadows Cabin	20A08	1900 2800	4/30	14	4.0	0.0	7.8
New Hozomeen Lake	21A30 20A09	4780	4/29	76	32.4	33.0	43.1
Rainy Pass Thunder Basin	20A03 20A07	4200	4/30	55	19.8	10.2	24.3

[#] Average based on 1961-1980 averages sp SNOTEL data

SNOW	•		THIS YEAR PA				ECORD
DRAINAGE BASIN and/or S	NOW COURSE	······	Date	Snow Depar	Water Content	Water Conte	ent (inches)
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Last Year	Average 3
BAKER RIVER							
DESIGNATION AND A SECTION OF SECTION ASSESSMENT ASSESSMENT OF SECTION ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSM							
Dock Butte +	20A11A	3800	4/30	150	81.0	58.0	74.1
Easy Pass +	21A07A	5200	4/30	207	97.0	74.0	91.2
Jasper Pass +	21A06A	5400	4/30	184	93.0	76.0	95.3
Martin Lake	21A09A	3600	4/30	168	91.0	68.0	81.0
Mt. Blum +	21A18A	5800	4/30	158	79.0	69.0	70.9
Rocky Creek	21A12A	2100	4/30	58	33.0	5.0	22.3
Schreibers Meadow	21A10A	3400	4/30	108	60.0	40.0	63.9
S.F. Thunder Creek +	21A14A	2200	4/30	0	0.0	0.0	1.5
Watson Lakes	21A08A	4500	4/30	158	79.0	55.0	73.2
	OLY	MPIC P	ENINSULA	DRAINAGI	<u> </u>		
DUNGENESS RIVER							
Deer Park	2 3B04	5200	4/30	38	16.3	12.0	22.5
MORSE CREEK							
Cox Valley	23B14	4500	4/28	87	36.8	34.4	42.0
ELWHA RIVER							
Hurricane	23B03	4500	4/28	49	17.1	16.5	25.6
WYNOOCHEE RIVER							
Carrol Pass	23B15	3650	5/02	78	35.6		

⁺ Aerial stadia observation

[#] Average based on 1961-1980 average

SNOTEL READINGS, MAY 1, 1985 - APPENDIX 1

SNOW				THIS YEAR		PAST RECORD Water Content (Inches)	
DRAINAGE BASIN and/or SNOW	NOW COURSE		Date	Snow Depth	Water Content		Average
NAME	Number	Elevation	of Survey	(Inches)	(inches)	Last Year	Average
	•						
PEND OREILLE RIVER							
Bunchgrass Meadows	17A01	5000	04/15	58	24.0 26.5	30.7	
	GT		05/01 05/01	50	23.2	28.4	29.3
OKANOGAN & METHOW RIVERS							
Harts Pass	20A05	6500	04/15		44.0	38.2	
	GT		05/01		45.7	39.9	41.8
- d N - 3	19A02	4500	04/15		3.7	19.9	
Salmon Meadows	17502	,,,,,,	05/01		0.0	14.6	14.
CHELAN LAKE BASIN							
	20A23	5900	04/15		48.8	58.9	
Lyman Lake	GT		05/01		51.9	68.9	68.
	20A39	5600	04/15		24.1	30.2	
Mirror Lake	GT	2000		32.2	31.8		
	05/01 20A12	4600	25.9 04/15	34.4	33.9	35.6	
Park Creek Ridge	GT	1000				32.2	31.
- A - D	20A09	4780	05/01 04/15		33.3 36.2	34.4	ه لد ن
Rainy Pass	GT	7700				34.3	32.
			05/01		37.5	34 • 3	72.
ENTIAT RIVER							
Pope Ridge	20B20	3450	04/15		9.3	13.0	
1070 1	GT		04/29	1.0	4.8 4.2	6.9	6
		-	05/01		े चर्च		Ψ.
WENATCHEE RIVER							
Blewett Pass	20B02	4270	04/15 05/01	10	12.2 4.6	18.8	
	GT		05/01	10	6.8	12.8	10
Lyman Lake	20A23	5900			48.8	68.9	-
Dynair Lake	GT	•	•	0.5.10		51.9	68
60.7				05/0			Ų.
68.7 Stevens Pass	21801	4070	04/15	•	39.5	39.7	
	GI		05/01		38.5	37.1	24
Trough # 2	20B25	5300			1.0	2.7	
	GT		05/01		0.0	0 -4	
			02/01				

¹⁸

SNOTEL READINGS, MAY 1, 1985 - APPENDIX 2

WOH?			THIS YEAR		PAST RECORD		
DRAINAGE BASIN and/ or SNOW COURSE		Date	Snow Deoth	Water Content	Water Content Linches		
NAME	Number	Elevation	of Survey	(inches)	(Inches)	Last Year	Average
OLOCKUM CREEK							
rough # 2	20B25 GT	5300	04/15		1.0	2.7	
	G.		05/01		0.0	0.4	8.8
TEMILI CREEK							
pper Wheeler	20B07 GT	4400	04/15		7 -5	14.6	
	GI		05/01		2.5	9.3	14.6
AKIMA RIVER							
ig Boulder Creek	21B09	3200	DISCONTI	NUED			
umping Ridge	21C38 GT	4600	04/15		28.3	31.2	
			05/01		28.0	30.6	16.7
Corral Pass	21B13 GT	6000	04/15				
			05/01		00.6	20.0	23 -0
Fish Lake	21B04 GT	3371	04/15		29.6	32.2	
•		4000	05/01		30.2	29.2	19.8
Green Lake	21C10 GT	6000	04/15		1.3.5	14.7	00.1
			05/01		12.3	20.8	28.
Grouse Camp	20B11 GI	5385	04/15		8.8.	19.8	20
		- 1 - 4	05/01		4.0	16.2	20.4
iorse Lake	21C17	5400	04/15		44.6	61.8	70 -
			05/01	21 21 21 21 21 21 21 21 21 21 21 21 21 2	44.9	65.2	/0.
Basse Ridge	21C40	4400	04/15 04/30	66	29.0		
	GT		04/30	UU	26.1		
vhite Pass E. Side	21C28 GT	4500			22.0	26.6	
	GT		05/01		22.5	26.8	25.
2000		4,					

SNOTEL READINGS, MAY 1, 1985 - APPENDIX 3

DRAINAGE BASIN and/or SN	OW COLLEGE			THIS YEAR		1	PAST RECORD		
NAME	·····	T	Date of Survey	THOM DEDIN Water Content		Water Con	ontent (inches)		
WASE	Number	Elevation	or survey	(Inches)	(Inches)	Last Year	Average		
AHTANUM CREEK									
Green Lake	21C10	6000	04/15		13.5	14.7			
•	Gl		05/01		10.0				
TOUCHET RIVER			03/01		12.3	20.9	28.5		
Touchet # 2	17C5	5530	04/15		36.4	31.7			
	GT		04/26	76	33.0				
LEWIS RIVER			05/01		34.2	30.1	29.4		
June Lake	22C09	3200	04/15		39.1				
	GT		,		23.1				
Lone Pine Shelter	21C26	3800	05/01		36.8				
roue time smerrer	GT	2000	04/15		39.6	40 -0			
			05/01		28.3	39.8	40.3		
Plains of Abraham	22C01	4400	04/15		86.6	94.7			
Sheep Canyon	22/10	\0E0	05/01		91.6	99.6	53.5		
meep Canyon	22010	4050	04/15		44.5	49.8			
Spencer Meadow	21C2O	3400	04/30 04/15		49.1	42.4	58.2		
-		- 100	05/01			25.1	22.6		
Burprise Lake	21C13 G1	4250	04/15			59.6	22.0		
			05/01		50.2	58.0	58.2		
OWLITZ RIVER									
igtail Peak	21C33	5900	04/15		46.5	49.7			
	GT		05/01						
otato Hill	21C14	4500	05/01 04/15		49.9	51.0	46.1		
	GT	4500	04/13		27.5	22.4			
Land A			05/01		25.5	20.5	20.5		
heep Canyon	22C10	4050	04/15		44.5	49.8			
trawberry Landing	22000	2000	04/30	· · ·	49.1	42.4	58.2		
crawberry handring	22C08 GT	3280	04/15		51.2				
			05/01		53.8		38.3		
teppes PC	22C11		04/15			69.7			
pirit PC	22C12		04/15		0.0	. 6			
			05/01		0.0	0.0	en e		
T = Cnound D1)), or				- - •			
I = Ground Truth measurer	ment at S	NOTEL	sites			•			

SNOTEL READINGS, MAY 1, 1985 - APPENDIX 4

SNOW	ı			THIS YEAR	Y	PAST R	ECORD
DRAINAGE BASIN and/or SN	OW COURSE		Date	Snow Depart	Water Content	Water Conte	
NAME	Number	Elevation	of Survey	(Inches)	(Inches)	Lasi Year	Average A
NISQUALLY RIVER							
Paradise Park	21C35	5500	04/15		69.9	18.0	
•			05/01		74.7		28.5
WHITE RIVER							
Corral Pass	21B13	6000	04/15				
	GT		05/05				23.2
Morse Lake	21C17 GT	5400	04/15		44.6	61.8	
	01		05/01		44 -9	63.2	70.7
GREEN RIVER							
Cougar Mountain	21B42	3200	04/15		22.2	19.1	
	GT		05/01		20.4	16.1	13.3
Stampede Pass	21B10	3960	04/15		46.9	48.0	10.0
	GT					4.5.0	
			05/01		50.0	46 .8	32.1
SNOQUALMIE RIVER							
Olallie Meadows East	21B55	3960	04/15		66.1	57.4	
			05/01		69.2	56.3	51.4

GT = Ground Truth measurements at SNOTEL sites